BRUHATH BANGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

DETAILED ESTIMATE FOR THE WORK OF **ASPHALTING FROM PIPE LINE ROAD JUNCTION TO ABBIGERE VILLAGE, ABBIGERE MAIN ROAD IN SHETTYHALLI SUB DIVISION WARD NO.12**

S.. No	Description of Items	Unit	Dimensions				Qty.	Rate / Uni	Amount
			No.	L.	B.	D			
1	2	3	4	5	6	7	8	9	10
1	KSRRB : Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m. sequential spreading of the salvagea aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries compelte as per specifications. (Page No.148, Item No. 21.3)								
			1	410.50	5.00		2052.50		
							2052.50	63.83	131007
	Basic Rate	59.10						Per Cmtr	
	Area Weightage 8%	4.73							
	Total	63.83							
2	KSRRB : Construction of granular sub-baseby providing close graded material, mixing in a mechanical mix plant at OMC , carriage of mixed Material to work site, spreading in uniform layers with mortor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specification. A.Plant Mix Method. Close graded granual sub-base material as epr 400-1 For Grading Material (Page No.140, Item No. 20.4.1)								
			1	410.50	7.50	0.15	461.81		
							461.81	983.88	454368
								Per Cmtr	

	Basic Rate	911.00							
	Area Weightage 8%	72.88							
	Total	983.88							
(	KSRRB : Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired complete as per specifications (Page No.143, Item No. 20.18)								
			1	410.50	7.50	0.25	769.69		
							769.69	1061.64	817131
	Basic Rate	983.00						Per Cmtr	
	Area Weightage 8%	78.64							
	Total	1061.64							
4	KSRRB : Providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2 kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut back M.C.70 or any other bitumen mixed with diesel at 10kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. (Page No.148, Item No. 21.4)								
			1	410.50	7.50		3078.75		
	Basic Rate	51.00					**3078.75**	74.38	228997
	Add to New rates	17.87						Per Smtr	
		68.87							

	Area Weightage 8%	5.51							
	Total	74.38							
5 (	KSRRB : Tack Coat:- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom complete as per specifications using bitumen emulsion. (Page No.149, Item No. 21.10.1)								
	Qty. vide item No.3, 2 times						6157.50		
							6157.50	9.07	55861
	Basic Rate	8.40						Per Smtr	
	Area Weightage 8%	0.67							
	Total	9.07							
6	KSRRB : Providing and laying bituminous macadam on prepared surface with cushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1 km including cost of all materials, labour, HOM of machineries compelte as per specification. MORTH Chapter 5 with 80/100 grade bitumen (Page No.149, Item No. 21.11.1)								
			1	410.50	7.50	0.05	153.94		

							153.94	5495.31	845934
	Basic Rate	5088.25						Per Cmtr	
	Area Weightage 8%	407.06							
	Total	5495.31							
7	KSRRB : Providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type HOT mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects as per specifications. with Bitumen 60/70 (Page No.152, Item No. 21.22.2)									
			1	410.50	7.50	0.04	123.15		
							123.15	8083.56	995491
	Basic Rate	7484.78						Per Cmtr	
	Area Weightage 8%	598.78							
	Total	8083.56							
8	KSRRB 40-1.3: Carriage of mixed materials 10 kms Page No.151,								
	1 to 2 km 2xRs. 5.25 =Rs 10.50								
	2 to 5 km 3xRs. 5.00 =Rs 15.00								
	5 to 10 km 5xRs. 4.75 =Rs 23.75								
	Rs.49.25	Qty Vide Item No 2+3+6+7							
							1508.59		
							1508.59	53.19	80242
	Basic Rate	49.25						Per Cmtr	
	Area Weightage 8%	3.94							
	Total	53.19							

9	KSRRB 300-1: Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3. in hard soil Page No. 126/ Item No. 19.2/ PWD SR 2010-11								
	CC Drain		2	312.50	1.20	1.50	1125.00		
	Culvert		8	6.50	2.10	1.50	163.80		
							1288.80	77.76	100217
	Basic Rate	72.00						Per Cmtr	
	Area Weightage 8%	5.76							
	Total	77.76							
10	KSRRB M2900-1: Plain cement concrete 1:3:6 mix with crushed stone aggregates 40m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14days complete as per specifications. MORTH Specification No. 408 **Page No. 224/ Item No. 34.1/ PWD SR 2010-11**								
	CC Drain		2	312.50	1.20	0.15	112.50		
	Culvert		8	6.50	2.10	0.15	16.38		
							128.88	3284.28	423278
	Basic Rate	3041.00						Per Cmtr	
	Area Weightage 8%	243.28							
	Total	3284.28							

11	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. Page No. 17/ Item No. 4.48.1/ PWDSR2010-11								
	Culvert sides		8*2	5.50	0.30	1.05	27.72		
	Culvert top		8	5.50	2.20	0.30	29.04		
	Drain bottom		2	312.50	1.10	0.10	68.75		
	Drain sides		4	312.50	0.15	1.05	196.87		
							322.38	4837.32	1559455
								Per Cmtr	
	Basic Rate	4479.00							
	Area Weightage 8%	358.32							
	Total	4837.32							
12	KSRB : Providing TMT steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.16, Item No. 4.46)								
			1	322.38	Kg/Cu m	76.00	245.41		
							245.41	5838.48	1432821

	Basic Rate	4819.00						Per Cmtr	
	add new cost of stell	587.00							
		5406.00							
(	Area Weightage 8%	432.48							
	Total	5838.48							
13	KSRB : Providing and removing centering, shuttering, strutting, propping etc.,for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specifications. (Page No.15, Item No. 4.36)								
			2x2x2	312.50		1.00	2500.00		
			16	5.20	0.90		74.88		
							2574.88	199.80	514461
	Basic Rate	185.00						Per Smtr	
	Area Weightage 8%	14.80							
	Total	199.80							
14	Supplying and fixing pre cost Reinforeced concrete slab 10cm thick including cost of reinforecement as per design and drawing material cost transportation hire charges of machinary machine cutting vertical face to get plain even surface etc., complete with all lead & lifts conveyance charges, labour charges and complete as per specifications								
			2	312.50	1.5		**937.5**	**1963.6**	**1840875**
	Approved rates	1963.6							
15	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450 x 200 x 400mm (Page No.24, Item No. 5.29.1)								
				1389.00			1389.00		
							1389.00	259.20	360029
	Basic Rate	240.00							
	Area Weightage 8%	19.20							
	Total	259.20							

16	KSRB : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.106, Item No.15.80)								
	For kerb stone		4	284.50		0.45	512.10		
							512.10	20.52	10508
	Basic Rate	19.00						Per Smtr	
	Area Weightage 8%	1.52							
	Total	20.52							
17	KSRRB : Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.166, Item No. 24.1)								
	For kerb stone		4	284.50		0.45	512.10		
							512.10	45.90	23505
	Basic Rate	42.50						Per Smtr	
	Area Weightage 8%	3.40							
	Total	45.90							
18	Disposal of Debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work. Lead 10km a) basic rate for haulage of materials as per item No. 17.4/ KSRRB M100-4.1 Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading item no. 17.1 KSRRB M 100-1 Rs. 62.00 (P-124, I-18.57/1)								
							1288.80		

			Qty. Vide Item No. 9				1288.80	94.82	122209.00
	Basic Rate	25.60							
	Loading and Unloading Charges	62.20							
		87.80							
	Area Weightage @ 8%	7.02							
	Total	94.82							
19	Miscellaneous and unforessen Charges								
								Total	9999000.00

(Rupees Ninety Nine Lakhs Ninety Nine Thousand Only)

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2010-11
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

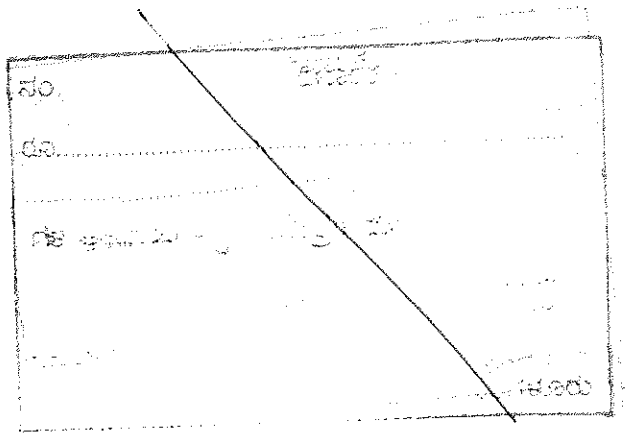
Assistant Engineer
Ward No.12

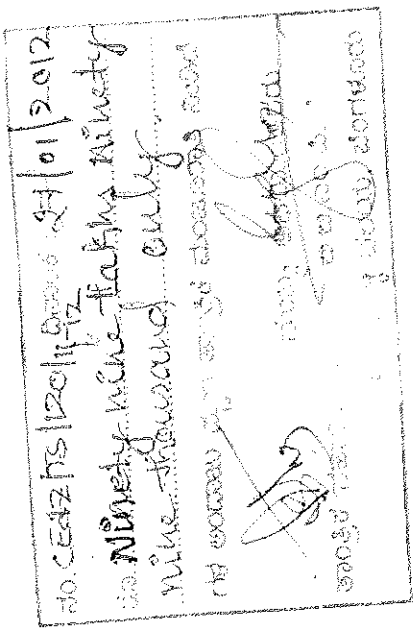
Asst. Exe. Engineer
Shettyhalli Sub- Division
BBMP

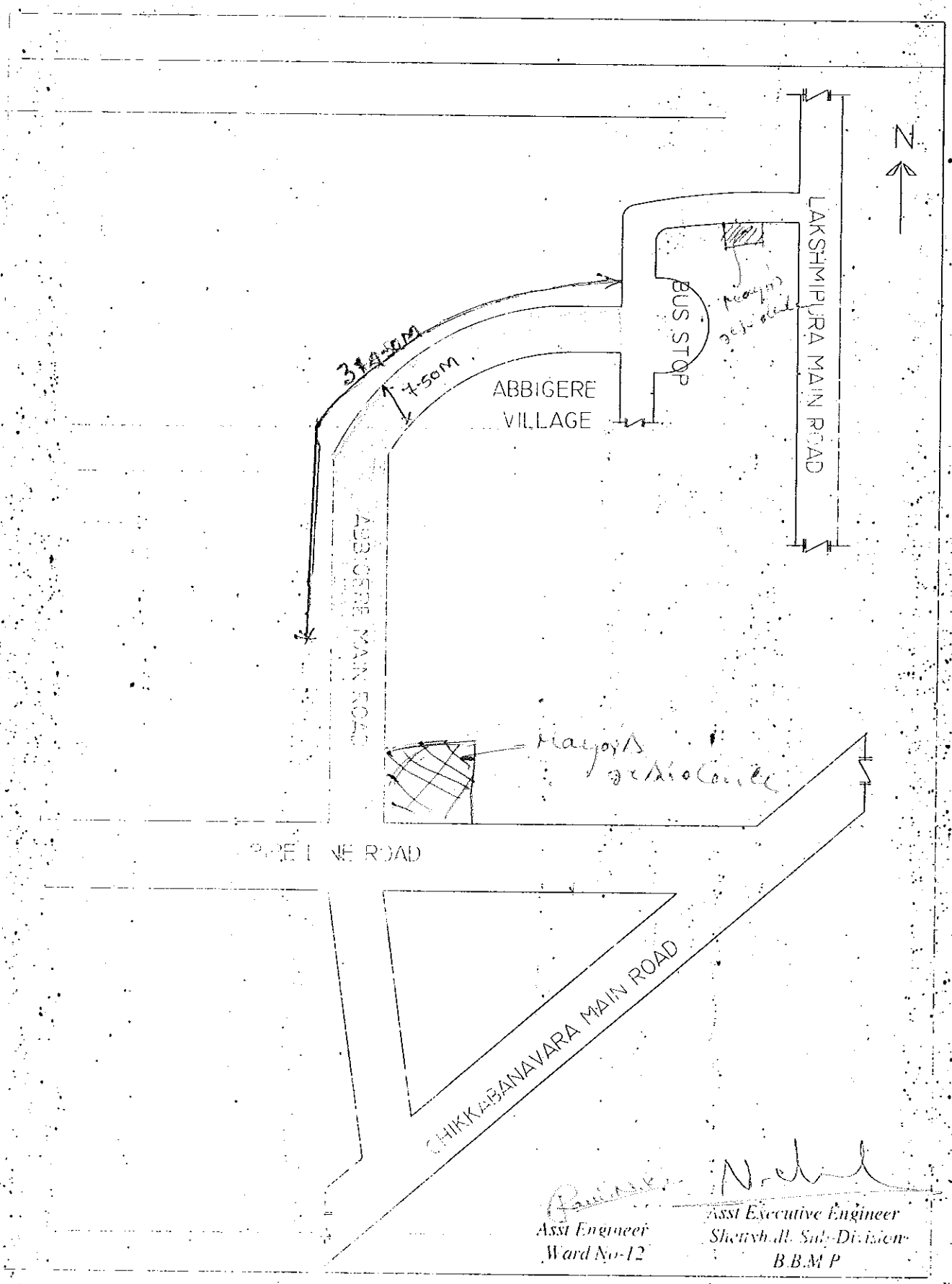
Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

Jc(D) AS 95/11-12 23/1/2012.
99.99 Lakhs, (Ninety nine Lakhs Ninety nine thousand Only)

vide P.No.55 Sl.No 95.







Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
B.B.M.P